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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/605,503	09/605,503 06/28/2000		Michael T. Moore	0325.00364	5734	
21363	7590	02/26/2003			•	
		MAIORANA, P.C	EXAMINER			
24025 GREATER MACK SUITE 200				MALZAHN, DAVID H		
ST. CLAIR SHORES, MI 48080				ART UNIT	PAPER NUMBER	
				2124	, ,	
				DATE MAILED: 02/26/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)				
		09/605,503	MOORE ET AL.				
	Office Action Summary	Examiner	Art Unit				
		David H. Malzahn	2124				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	Posponsive to communication(s) filed on						
1)□ 2a)□	Responsive to communication(s) filed on This action is FINAL . 2b) Thi	— · is action is non-final.					
· · · · ·	<i>,</i> —		recognition as to the mosts is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdraw	vn from consideration.					
· · · · ·	Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
·	Claim(s) is/are objected to.						
· ·	Claim(s) are subject to restriction and/or ion Papers	election requirement.					
	•	•					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on <u>28 June 2000</u> is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 							
Attachment(s)							
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	/ (PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-11 and 13-20 are rejected under 35 U.S.C. 102(b) as being anticipated by White (4,344,151).

White's Fig. 1 illustrates a quad port memory including LUTs to provide logical functions which may be partial product signals which are subsequently added to effect multiplication.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over White and Chehrazi et al (Chehrazi).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to add one or more registers to increase the throughput of White's multiplier

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because pipelining is a well known technique to increase throughout as illustrated by Cheharazi, note the abstract.

Claim Rejections - 35 USC § 112

5. Claims 8-11 and 14-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 8 is dependent on itself. The "one or more second signals" of claim 10 fail to be clearly related to the "one or more partial product signals" of claim 9. In claim 11 the phrase "routable interconnect" clearly lacks meaning. In claim 14 the "means for providing one or more logical functions" fail to be clearly related to the LUTs because the LUTs provide the logical functions. Similarly note claim 15. Claims 16-20 are method claims dependent on apparatus claim 14. In claim 20 the phrase "step (D)" lacks clear antecedent basis.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Malzahn whose telephone number is (703) 305-9762. The examiner can normally be reached on M-Th from 7:30 to 6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is (703) 746-7239.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

David H. Malzahn Primary Examiner Art Unit 2124